

CLAIMS

What is claimed is:

- 1 1. A method comprising:
2 compiling data on reported factors that cause data transmission errors;
3 predicting unreported factors that can cause data transmission errors;
4 compiling data on the unreported factors;
5 employing error correction on data to be transmitted, based on at least
6 one of the data on the reported factors and the unreported factors; and
7 transmitting the data to be transmitted to at least one receiver.
- 1 2. The method as in claim 1, wherein the compiling data on the reported
2 factors and on the unreported factors comprises collecting data that can effect
3 data transmission on a path to the at least one receiver, and collecting data on
4 at least one of regional data, environmental data, atmospheric data, sunspot
5 activity and season, radio frequency propagation data, and retransmission
6 factors.
- 1 3. The method as in claim 1, wherein the compiling data on reported
2 factors comprises at least one of continuously collecting data and collecting
3 data at predetermined events that can effect data transmission.
- 1 4. The method as in claim 1, wherein the predicting unreported factors
2 comprises at least one of continuously predicting and predicting at
3 predetermined events that can effect data transmission.
- 1 5. The method as in claim 1, wherein the employing error correction
2 comprises employing at least one of forward error correction and carouselling,
3 and adjusting at least one of bandwidth and Quality Of Service (QOS).
- 1 6. The method as in claim 1, wherein the employing error correction
2 comprises dynamically adjusting error correction.
- 1 7. The method as in claim 1, wherein the transmitting comprises
2 broadcasting data.

1 9. An apparatus comprising:
2 an error correction engine to compile data on reported factors that cause
3 data transmission errors, predict and compile unreported factors that can cause
4 data transmission errors, and employ error correction on data to be transmitted,
5 based on at least one of the data on the reported factors and the unreported
6 factors; and
7 a transmitter, coupled to the error correction engine, to transmit the data
8 to be transmitted to at least one receiver.

1 10. The apparatus as in claim 9, wherein the error correction engine collects
2 data that can effect data transmission on a path to the at least one receiver,
3 and collects data on at least one of regional data, environmental data,
4 atmospheric data, sunspot activity and season, radio frequency propagation
5 data, and retransmission factors.

1 11. The apparatus as in claim 9, wherein the error correction engine at least
2 one of continuously collects data on reported factors and collects data on
3 reported factors at predetermined events that can effect data transmission.

1 12. The apparatus as in claim 9, wherein the error correction engine at least
2 one of continuously predicts unreported factors and predicts unreported factors
3 at predetermined events that can effect data transmission.

13. The apparatus as in claim 9, wherein the transmitter broadcasts data.

1 14. The apparatus as in claim 9, wherein the error correction engine
2 dynamically employs at least one of forward error correction and carouselling,
3 and adjusts at least one of bandwidth and Quality Of Service (QOS).

1 16. A machine readable medium having instructions that when executed by
2 a processor cause the processor to perform operations comprising:
3 compiling data on reported factors that cause data transmission errors;
4 predicting unreported factors that can cause data transmission errors;
5 compiling data on the unreported factors;
6 employing error correction on data to be transmitted, based on at least
7 one of the data on the reported factors and the unreported factors; and
8 transmitting the data to be transmitted to at least one receiver.

1 17. The machine readable medium of claim 16, wherein the compiling data
2 on the reported factors and on the unreported factors comprises collecting data
3 that can effect data transmission on a path to the at least one receiver, and
4 collecting data on at least one of regional data, environmental data,
5 atmospheric data, sunspot activity and season, radio frequency propagation
6 data, and retransmission factors.

1 18. The machine readable medium of claim 16, wherein the compiling data
2 on reported factors comprises at least one of continuously collecting data and
3 collecting data at predetermined events that can effect data transmission.

1 19. The machine readable medium of claim 16, wherein the predicting
2 unreported factors comprises at least one of continuously predicting and
3 predicting at predetermined events that can effect data transmission.

1 20. The machine readable medium of claim 16, wherein the employing error
2 correction comprises employing at least one of forward error correction and

3 carouselling, and adjusting at least one of bandwidth and Quality Of Service
4 (QOS).

1 21. The machine readable medium of claim 16, wherein the employing error
2 correction comprises dynamically adjusting error correction.

1 22. The machine readable medium of claim 16, wherein the transmitting
2 comprises broadcasting data.

1 23. The machine readable medium of claim 16, wherein the transmitting the
2 data comprises utilizing at least one of wireless conventional ground terrestrial
3 transmission, digital television (DTV) connection, analog and digital cable
4 television (CATV), satellite connection, direct broadcast satellite system (DBS),
5 wide area network (WAN) connection, and formats chosen by the Advanced
6 Television Systems Committee (ATSC) and the National Television Standards
7 Committee (NTSC).